Panasonic Broadcast

AJ-D455
Menu Information

Setup (default settings)

The unit's major settings are performed by making selections on menus.
The setting menus appear on the TV monitor when the TV monitor and VIDEO OUT 3 connector in the unit's connector area are hooked up. The menus can be output to the SDI OUT 3 connector as well when the AJ-YA455P component serial interface board is used.

Changing the settings

1 Press the MENU button.
The setup menu appears on the TV monitor and setup menu No. appears on the counter display. (If the setup has already been performed, the screen showing the changes made last will appear.)

2 Press the cursor buttons (▲, ▼) and select the item to be set.
The cursor (∗) on the menu screen moves and the item No. on the display flashes.
• When the ▼ button is pressed, the item No. is incremented for 001 → 002 → 003 → 004 → and so on; when the ▲ button is pressed, the item No. is decremented.

3 Press the cursor buttons (◀, ▶) at the position where the change is to be made.
The menu screen and display setting No. now flashes.
When the ▶ button is pressed, the setting No. is incremented; when the ◀ button is pressed, it is decremented.

4 Repeat steps 2 and 3 to change other items.

5 Press the SET button.
The changes are now stored in the memory.
• To return the items to the settings established before the changes were made, press the MENU button without pressing the SET button.

To return the setup settings to the factory (initial) settings, press the RESET button while the menu is displayed.
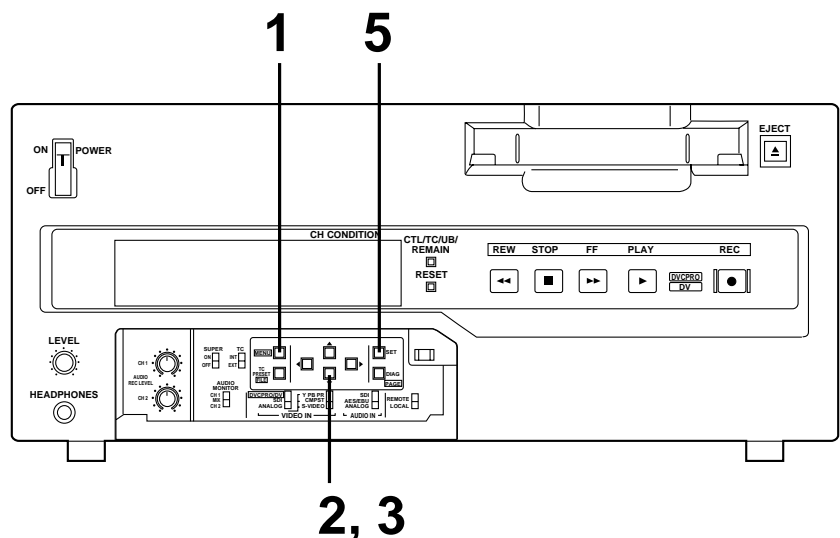
The following message is displayed.

```
SETUP-MENU INIT SET
YES<PLAY>/NO<STOP>
```

When the PLAY button is pressed, the factory settings are restored.

<Notes>
• When the RESET button is pressed to return to the factory settings, the factory settings are restored only for the user file currently being used and other user files are not affected.
• The changed SYSTEM menu contents are stored in the memory even if the MENU button is pressed.
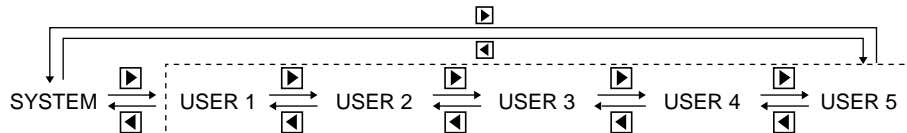
Setup menus

This unit can store up to 5 user files (user 1 to user 5) containing different menu settings, and these files can be selected and used.

Changing the file

1 Press the MENU button.

2 Hold down the FILE button and press the cursor button ▶ to switch to the next user file.
Hold down the FILE button and press the cursor button ◀ to switch to the previous user file.

USER FILE
Each user file contains the following items.
• BASIC
• OPERATION
• INTERFACE
• EDIT
• TAPE PROTECT
• TIME CODE
• VIDEO
• AUDIO
• MENU

3 Repeat the operation in step 2 to select the user file to be used and press the SET button. The user file is changed and stored in the memory.

<Note>
SYSTEM menu items are not included in user files 1 to 5.
Therefore, after selecting the user file, switch to the SYSTEM file and set the SYSTEM menu items.

Lock mode can be set to protect the settings in the system files and user files (USER2 – USER5). Settings can no longer be changed when this mode is set.
To set and release the lock mode for the system files and user files use setup item No. 30 (MENU LOCK) and setup menu item No. A03 (MENU LOCK), respectively.

Setting and releasing the lock mode.

1 Press the MENU button.

2 While holding down the FILE button, press the ◀ or ▶ button, and select the file for which the lock mode is to be set or released.

3 Press the ▲ or ▼ button and move the cursor (∗) on the menu screen to setup item No. 30 (MENU LOCK) or setup menu item No. A03 (MENU LOCK) for the system or user file.

4 Press the ◀ or ▶ button, and select lock mode setting or release.
To set the lock: Select the 0001 (ON) setting.
To release the lock: Select the 0000 (OFF) setting.

When the lock has been set, "LOCKED" flashes on the menu screen. In addition, the counter display stops flashing and lights.

```
SETUP-MENU  LOCKED
<USER2>    NO.000 – 0005
*000 P-ROLL TIME      5s
 001 CHARA H-POS       5
 002 CHARA V-POS      23
 003 DISPLAY SEL    T&STA
 004 LOCAL ENA      ST&EJ
 005 TAPE TIMER     ±12h
 006 SUPER            ON
 007 CHARA TYPE    WHITE
 101 SHTL MAX        X32
```
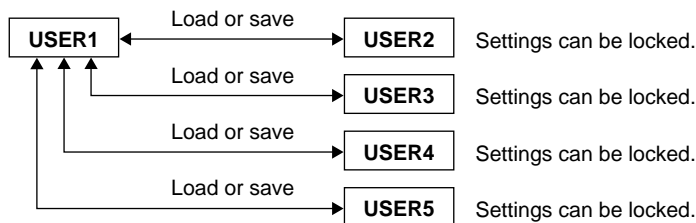
5 Press the SET button. The setting is now stored in the memory.

<Notes>
• The lock mode cannot be set for the USER1 file settings.
• Even if the RESET button is pressed, the files which has been set to the lock mode cannot be reset to the factory settings.

Setup menus

The contents of the USER2 – USER5 files can be copied (loaded) into the USER1 file. In addition, the contents of the USER1 file can be copied (saved) to the USER2 – USER5 files.

```
                    Load or save
   USER1  ◀─────────────────────▶   USER2      Settings can be locked.
     ▲ ▲ ▲    Load or save
     │ │ └──────────────────────▶   USER3      Settings can be locked.
     │ │      Load or save
     │ └────────────────────────▶   USER4      Settings can be locked.
     │        Load or save
     └──────────────────────────▶   USER5      Settings can be locked.
```

Loading a user file

1 Press the MENU button.

2 While holding down the FILE button, press the ◀ or ▶ button, and select USER1.

3 Press the ▲ or ▼ button and move the cursor (∗) on the menu screen to setup item No. A00 (LOAD).

```
SETUP-MENU  MENU
<USER1>    NO.A00 - 0000
 725 CUE SLOW       STEP
∗A00 LOAD          USER2
 A01 SAVE          USER2
 A02 P.ON LOAD       OFF
 END
```

4 Press the ◀ or ▶ button and select the user file whose contents are to be loaded into USER1.

5 Press the SET button. The following messages appear on the menu screen and counter display.

Menu screen

```
SETUP-MENU LOAD

 USER2 → USER1 OK?
  YES<PLAY>/NO<STOP>
```

Counter display

```
 L U2 -U1
```

The user file number selected in step 4 is displayed in the shaded area.

6 Press the PLAY button. The settings of the user file selected in step 4 are loaded, and the USER1 menu display appears. When the STOP button is pressed, the USER1 menu display appears while the settings remain unchanged.

7 Press the ▲ or ▼ button and move the cursor (∗) on the menu screen to any setup item except No. A00 (LOAD) and No. A01 (SAVE).

8 Press the SET button. The USER1 settings are now stored in the memory.
If the USER1 settings are not going to be stored in the memory, do not press the SET button but press the MENU button.

Saving a user file

1 Press the MENU button.

2 While holding down the FILE button, press the ◀ or ▶ button, and select USER1.

3 Press the ▲ or ▼ button and move the cursor (∗) on the menu screen to setup item No. A01 (SAVE).

```
SETUP-MENU   MENU
<USER1>    NO.A00 - 0000
 723 DV PB ATT        OFF
 A00 LOAD            USER2
∗A01 SAVE            USER2
 A02 P.ON LOAD        OFF
 END
```

4 Press the ◀ or ▶ button and select the user file into which the USER1 contents are to be saved. User files which have been set to the lock mode are not displayed. When all the user files have been set to the lock mode, the "LOCKED" display appears and the contents cannot be saved.

5 Press the SET button. The following messages appear on the menu screen and counter display.

Menu screen

```
SETUP-MENU SAVE

 USER1 → USER2 OK?
  YES<PLAY>/NO<STOP>
```

Counter display

```
 S U1 -U2
```

The user file number selected in step 4 is displayed in the shaded area.

6 Press the PLAY button. The contents of the USER1 file are saved in the user file which was selected in step 4 and stored in the memory. When the STOP button is pressed, the USER1 menu display appears while the settings remain unchanged.

7 Press the ▲ or ▼ button and move the cursor (∗) on the menu screen to any setup item except No. A00 (LOAD) and No. A01 (SAVE).

8 Press the SET button. The USER1 settings are now stored in the memory.
If the USER1 settings are not going to be stored in the memory, do not press the SET button but press the MENU button.

Automatic loading of user file when the power is turned on

When the user file to be loaded is selected in advance using setup menu item No. A02 (P.ON LOAD), it can be automatically loaded into USER1 when the power is turned on.

Setup menus

SYSTEM menu

<SYSTEM>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
00	SYS SC COAR.	0000	0	System phase rough adjustment: 90° units
		0001	90	**<Note>**
		0002	180	If setting operation is performed, the setting value does not
		0003	270	return to factory (default) setting.
01	SYS SC FINE	0000	−127	System phase fine adjustment: Variable range ±45° or more
		⋮	⋮	−: advanced
		0127	0	+: delayed
		⋮	⋮	**<Note>**
		0255	128	If setting operation is performed, the setting value does not return to factory (default) setting.
02	SYS H	0000	−127	System phase adjustment: SC period increments, ±15 µs
		⋮	⋮	variable range
		0127	0	−: Advanced
		⋮	⋮	+: Delayed
		0255	128	**<Note>** If setting operation is performed, the setting value does not return to factory (default) setting.
03	ENCODER SEL	0000	OFF	For selecting whether the ENCODER REMOTE connector is
		0001	ON	to function or not. 0: Does not functions. 1: Functions.
05	SCH COARSE	0000	0	For coarsely adjusting the SCH phase: 90-degree increments
		0001	90	(The SC phase is varied but the H phase remains unchanged.)
		0002	180	
		0003	270	
06	SCH FINE	0000	−32	For finely adjusting the SCH phase: Variable range from −45°
		⋮	⋮	to +45°
		0032	0	(The SC phase is varied but the H phase remains unchanged.)
		⋮	⋮	
		0064	32	
10	AV PHASE	0000	−128	This adjusts the audio output phase with respect to the video
		⋮	⋮	output: 20.8 µs steps
		0128	0	−: The audio output phase is advanced with respect to the
		⋮	⋮	video output.
		0255	127	+: The audio output phase is delayed with respect to the video output.
15	VIDEO LEVEL	0000	−127	For setting the video level.
		⋮	⋮	The maximum amount by which the level can be varied is
		0127	0	from −3 to +3 dB.
		⋮	⋮	
		0255	128	
16	SET UP LEVEL	0000	−127	For setting the setup amount.
		⋮	⋮	The maximum amount by which the setup can be varied is
		0127	0	14 IRE.
		⋮	⋮	
		0255	128	
17	HUE	0000	−128	For setting the hue.
		⋮	⋮	The maximum amount by which the hue can be varied is from
		0128	0	−30° to +30°.
		⋮	⋮	
		0255	127	

The underline on the setting item denotes the initial setting.

SYSTEM menu

<SYSTEM> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
18	CHROMA LEVEL	0000 ⋮ <u>0127</u> ⋮ 0255	−127 ⋮ <u>0</u> ⋮ 128	For setting the chroma level. The maximum amount by which the level can be varied is from −3 to +3 dB.
21	SYS H OFFSET	0000 0001 0002 <u>0003</u> 0004 0005 0006	−3 −2 −1 <u>0</u> 4 5 6	For adjusting the system phase offset: 4.48 μs steps 0: −13.4 μs 1: −8.96 μs 2: −4.48 μs 3: 0 4: +4.48 μs 5: +8.96 μs 6: +13.4 μs **<Notes>** • The setting remains unchanged even when the factory setting operation is performed. • When this menu item is used together with SYSTEM menu item No. 02 (SYS H) setting, the adjustment is limited to a range from −15 to +15 μs.
22	SYS SC/H	<u>0000</u> 0001	<u>REMOTE</u> LOCAL	For setting whether the system phase is to be adjusted by the unit or from the external encoder remote connector. 0: The system phase is adjusted from the external encoder remote connector. 1: The system phase is adjusted by the unit. **<Notes>** • This setting remains unaffected when OFF is selected as the SYSTEM menu item No. 3 (ENCODER SEL) setting. • The range for the system phase adjustment using the encoder remote connector is −3 to +3 μs. When this menu item is used together with SYSTEM menu item No. 021 (SYS H OFFSET) setting, adjustment can be made from −15 to +15 μs.
30	MENU LOCK	<u>0000</u> 0001	<u>OFF</u> ON	This selects whether the system file lock mode is to be engaged or released. 0: The lock is released (file data can be changed). 1: The lock is engaged (file data cannot be changed).

The underline on the setting item denotes the initial setting.

Video output signal adjustments

The SYSTEM menu item No. 03 (ENCODER SEL) and No. 22 (SYS SC/H) settings are used to make the video output signal adjustments. The table below shows the control matrix for these adjustments.

Setting		Adjustment item	
SYSTEM menu item 03: ENCODER SEL	SYSTEM menu item 22: SYS SC/H	SYSTEM menu item 00: SYS SC COAR. 01: SYS SC FINE	VIDEO LEVEL CHROMA LEVEL SET UP HUE
OFF	LOCAL	Unit	Unit (SYSTEM menu)
	REMOTE		
ON	LOCAL	Unit	External encoder remote
	REMOTE	External encoder remote	

Setup menus

USER menu

<BASIC>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
000	P-ROLL TIME	0000 ⋮ 0005 ⋮ 0015	0S ⋮ 5S ⋮ 15S	This sets the preroll time which can be set from 0 to 15 seconds in 1-second increments. **<Note>** The unit will not operate if the preroll time is set to 0 seconds when the unit is set to automatic editing (PREVIEW, AUTO EDIT COMMAND) from an external controller.
001	CHARA H-POS	0000 ⋮ 0004 ⋮ 0016	0 ⋮ 4 ⋮ 16	This sets the position of the characters on the horizontal plane for the time code and other super displays output to the VIDEO OUT 3/SERIAL OUT 3* connector. **<Note>** When setting this item, the DISPLAY SEL status is output to VIDEO OUT 3/SERIAL OUT 3* even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. Also, CHARA TYPE is output to VIDEO OUT 3/SERIAL OUT 3* according to the status set in the menu.
002	CHARA V-POS	0000 ⋮ 0018 ⋮ 0022	0 ⋮ 18 ⋮ 22	This sets the position of the characters on the vertical plane for the time code and other super displays output to the VIDEO OUT 3/SERIAL OUT 3* connector. **<Notes>** 1. When setting this item, the DISPLAY SEL status is output to VIDEO OUT 3/SERIAL OUT 3* even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. Also, CHARA TYPE is output to VIDEO OUT 3/SERIAL OUT 3* according to the status set in the menu. 2. When the DISPLAY SEL setting causes characters to extend beyond the edges of the screen, the setting value is changed so that the characters are automatically displayed in a position on the screen.
003	DISPLAY SEL	0000 0001 0002 0003 0004 0005 0006	TIME T&STA T&S&M T&RT T&YMD T&MDY T&DMY	For selecting the time code and/or other information which is to be shown on the superimposed display at the VIDEO OUT 3/SERIAL OUT 3* connector. 0: Time only 1: Time and operation mode 2: Time, operation mode and mode 3: Time and REC TIME 4: Time and REC DATE (year/month/day) 5: Time and REC DATE (month/day/year) 6: Time and REC DATE (day/month/year) **<Notes>** 1. The mode display is DVCPRO during DVCPRO playback, DV during DV playback, and DVCAM during DVCAM playback. 2. When 2 (T&S&M) is set, an error message will appear when a warning or error has occurred. 3. REC TIME and REC DATE are displayed during DV or DVCAM playback only. The operation mode is displayed during DVCPRO playback.
004	LOCAL ENA	0000 0001 0002	DIS ST&EJ ENA	This selects the buttons which can be operated on the front panel when the REMOTE/LOCAL switch has been set to REMOTE. 0: No buttons can be operated. 1: Only the STOP and EJECT buttons can be operated. 2: All buttons can be operated.

* The SERIAL OUT 3 connector functions only when the AJ-YA455P serial interface board (optional accessory) is used.

The underline on the setting item denotes the initial setting.

USER menu

<BASIC> (continued)

Item		Setting		Description
No.	**Superimposed display**	**No.**	**Superimposed display**	
005	TAPE TIMER	<u>0000</u> 0001	<u>±12h</u> 24h	This selects the 12 or 24 hour display for the CTL counter. 0: 12 hour display 1: 24 hour display
007	CHARA TYPE	<u>0000</u> 0001	<u>WHITE</u> W/OUT	This selects the display type for the super display output to the VIDEO OUT 3/SERIAL OUT 3* connector as well as for displays such as the setting menu, etc. 0: White characters against a black background. 1: White characters with a black border.
008	REMAIN SEL	0000 <u>0001</u> 0002 0003	OFF <u>2L</u> 1L R/TTL	For selecting whether to display the remaining tape time and total tape length as the superimposed display at the VIDEO OUT 3/SERIAL OUT 3* connector. 0: No display appears. 1: Remaining tape time is displayed on the second line. 2: Remaining tape time is displayed on the first line. 3: Remaining tape time is displayed on the first line and the total tape length on the second line. **<Notes>** • When setting 1 (2L) has been selected, the display does not appear if 0 (TIME) has been selected for the setup menu No. 003 (DISPLAY SEL) setting. • When setting 3 (R/TTL) has been selected, the total tape length will not appear if 0 (TIME) has been selected for the setup menu No. 003 (DISPLAY SEL) setting.

* The SERIAL OUT 3 connector functions only when the AJ-YA455P serial interface board (optional accessory) is used.

The underline on the setting item denotes the initial setting.

Setup menus

USER menu

<OPERATION>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
101	SHTL MAX	0000 0001 0002	×16 ×32 ×60	This sets the maximum speed for shuttle operations. 0: 16× normal speed 1: 32× normal speed 2: 60× normal speed **<Note>** When a DV or DVCAM cassette is used, the 32× speed will be set even if "×60" has been selected as this item's setting.
102	FF. REW MAX	0000 0001 0002	×32 ×60 ×100	This sets the maximum speed for FF and REW operations. 0: 32× normal speed 1: 60× normal speed 2: 100× normal speed **<Note>** When a DV or DVCAM cassette is used, the 32× speed will be set regardless of what has been selected as this item's setting.
103	AUDIO MUTE	0000 0001	OFF ON	This sets the status until the audio signal is output when operation switches from the stop or search modes to the play mode. 0: The time until the audio is output is shortened. 1: The audio is output after the status stabilizes. **<Note>** When set to 0 (OFF), the sound in the initially output part is incomplete. Therefore, this setting is not recommended for broadcasts.
104	REF ALARM	0000 0001	OFF ON	This selects whether to warn the operator when the REF.VIDEO signal has not been connected. 0: Warning is not given. 1: Warning is given by the flashing STOP lamp.
106	PLAY DELAY	0000 ⋮ 0015	0 ⋮ 15	This set the play delay time in frame increments.
107	CAP.LOCK	0000 0001	2F 4F	This selects the capstan lock mode. 0: 2F mode 1: 4F mode
109	EJECT EE SEL	0000 0001 0002	EE BLACK GRAY	For selecting the video and audio output status when the tape is ejected. 0: EE mode 1: Video blackens, audio mutes. 2: The images appear in gray, and the sound is muted.
110	F/R EE SEL	0000 0001	EE TAPE	This selects whether EE mode or playback mode is to be used during FF/REW operations. 0: EE mode 1: Playback mode
111	STOP EE SEL	0000 0001	EE TAPE	This selects whether EE mode or playback mode is to be used during stop mode. 0: EE mode 1: Playback mode **<Note>** This setting is complied with even in the standby OFF mode. However, the images will appear in gray when "TAPE" has been selected.
112	AUTO REW	0000 0001	OFF ON	This selects whether to rewind the tape automatically to the tape start when the tape end is detected. 0: The tape stops at the tape end. 1: The tape is rewound to the tape start.

The underline on the setting item denotes the initial setting.

USER menu

<OPERATION> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
113	MEMORY STOP	<u>0000</u> 0001	<u>OFF</u> ON	This selects whether the VTR is to stop automatically when the counter value reaches "0" during a fast forwarding or rewinding operation in the CTL mode. 0: The VTR does not stop. 1: The VTR stops automatically. **<Notes>** 1. The stop mode concerned is either the stop or the still-picture mode depending on the setup menu No. 313 (AFTER CUE-UP) setting. 2. When both the AUTO REW function and MEMORY function have been selected at the same time, the AUTO REW function takes precedence.
114	REC INHIBIT	<u>0000</u> 0001	<u>OFF</u> ON	This selects whether to allow (enable) or prohibit (disable) the recording of signals on the cassette tape. 0: Signals can be recorded on the cassette tape when the cassette's accidental erasure prevention mechanism is set to the recording enable position. 1: Recording on the cassette tape is prohibited. In this case, the REC INH lamp on the front panel lights.
120	REC INH LAMP	<u>0000</u> 0001	<u>LIGHT</u> FLASH	For selecting whether the REC INHIBIT lamp is to flash or light when the cassette has been set to the accidental erasure prevention status. 0: The lamp lights. 1: The lamp flashes. **<Note>** When ON has been selected as the setup menu item No. 114 (REC INHIBIT) setting, the REC INHIBIT lamp will light all the time regardless of what has been selected as this item's setting.
121	EJECT SW INH	<u>0000</u> 0001	<u>REC</u> OFF	For selecting whether to enable or disable the operation of the front panel's EJECT button. 0: The button's operation is disabled in the recording mode. 1: The button's operation is enabled in all modes.

The underline on the setting item denotes the initial setting.

Setup menus

USER menu

<INTERFACE>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
201	9P SEL	0000 0001	OFF ON	This selects whether the 9-Pin connector functions when the REMOTE/LOCAL switch has been set to REMOTE. 0: Do not function 1: Function
202	ID SEL	0000 0001 0002	OTHER DVCPRO ORIG	This selects the ID information which is returned to the controller. 0: 20 25H 1: DVCPRO's, own ID is returned (F0 33H). 2: The unit's own ID (A0 3CH) is returned. **<Note>** Set "ORIG" only when the unit is connected with a Panasonic controller (such as the AJ-A900, optional accessory).
204	RS232C SEL	0000 0001	OFF ON	These settings are for selecting whether the RS-232C connector is to function when the REMOTE/LOCAL switch is set to REMOTE. 0: Connector does not function. 1: Connector functions.
205	BAUD RATE	0000 0001 0002 0003 0004 0005	300 600 1200 2400 4800 9600	These settings are for selecting the RS-232C communication speed (baud rate).
206	DATA LENGTH	0000 0001	7 8	These settings are for selecting the RS-232C data length. (Unit: bit)
207	STOP BIT	0000 0001	1 2	These settings are for selecting the RS-232C stop bit length. (Unit: bit)
208	PARITY	0000 0001 0002	NON ODD EVEN	These settings are for selecting the none, odd or even for the RS-232C parity bit. 0: Parity bit is not used. 1: An odd number of bits is used for the parity system. 2: An even number of bits is used for the parity system.
209	RETURN ACK	0000 0001	OFF ON	These settings are for selecting whether the ACK code is to be returned when a command is received from RS-232C. 0: ACK code is not returned. 1: ACK code is returned.

The underline on the setting item denotes the initial setting.

USER menu

<EDIT>

Item		Setting		Description
No.	**Superimposed display**	**No.**	**Superimposed display**	
303	STD/ NON-STD	0000 0001 0002	AUTO STD N-STD	This selects STD or NON-STD in accordance with the composite input signal. 0: Standard/non-standard signals are automatically identified and processed. 1: Standard signals are processed. (Forced STD) 2: Non-standard signals are processed. (Forced NON-STD)
304	SERVO REF	0000 0001	AUTO EXT	This selects the video signal processing. 0: Servo is synchronized with the input signal during recording and editing, or with the REF signal during playback. 1: Servo is synchronized at all times with the REF signal.
305	EDIT RPLCE1	0000 0001 0002 0003	N-DEF CH1 CH2 CH1+2	This sets the channel assignments for the controller's analog audio preset when editing the digital audio of the VTR using a controller which does not have a digital audio edit preset control function. This selects the channel concerned when the VTR CH1 edit preset is set in compliance with the ON or OFF presetting for the analog audio signals designated by the controller. 0: Not set. 1: Compliance with analog CH1 edit preset. 2: Compliance with analog CH2 edit preset. 3: Compliance with either analog CH1 or CH2 edit preset.
306	EDIT RPLCE2	0000 0001 0002 0003	N-DEF CH1 CH2 CH1+2	This sets the channel assignments for the controller's analog audio preset when editing the digital audio of the VTR using a controller which does not have a digital audio edit preset control function. This selects the channel concerned when the VTR CH2 edit preset is set in compliance with the ON or OFF presetting for the analog audio signals designated by the controller. 0: Not set. 1: Compliance with analog CH1 edit preset. 2: Compliance with analog CH2 edit preset. 3: Compliance with either analog CH1 or CH2 edit preset.
307	EDIT RPLCEC	0000 0001 0002 0003	N-DEF CH1 CH2 CH1+2	This sets the channel assignments for the controller's analog audio preset when editing the digital audio of the VTR using a controller which does not have a digital audio edit preset control function. This selects the channel concerned when the VTR CUE edit preset is set in compliance with the ON or OFF presetting for the analog audio signals designated by the editor or controller. 0: Not set. 1: Compliance with analog CH1 edit preset. 2: Compliance with analog CH2 edit preset. 3: Compliance with either analog CH1 or CH2 edit preset.
309	AUD EDIT IN	0000 0001	CUT FADE	This selects the connection method for the digital audio edit IN point. 0: Cut processing 1: V Fade processing
310	AUD EDIT OUT	0000 0001	CUT FADE	This selects the connection method for the digital audio edit OUT point. 0: Cut processing 1: V Fade processing

The underline on the setting item denotes the initial setting.

Setup menus

USER menu

<EDIT> (continued)

No.	Superimposed display	No.	Superimposed display	Description
Item		**Setting**		**Description**
313	AFTER CUE-UP	0000 0001 0002	STOP STILL1 STILL2	This selects the mode after cue-up operation is complete. 0: STOP mode 1: SHTL STILL mode 2: VAR STILL mode
315	AUD MEM UNIT	0000 0001 0002 0003	OFF MODE1 MODE2 MODE3	This selects the connection with the AJ-YA752 audio memory unit. 0: When the audio memory unit is not going to be used 1: When a voice-over operation is to be conducted 2: When audio cross channel editing is to be performed for CH2 3: When audio cross channel editing is to be performed for CH1 **<Notes>** • The RS-232C interface will function only when this menu item is set to 0 (OFF). • Refer to the Instruction Manual of the AJ-YA752 audio memory unit for details on how the modes are used.
316	VAR STEP	0000 0001	FINE COARSE	This selects the VAR speed during remote control operations. 0: The tape is played at the fine step speed. 1: The tape is played at a speed at which noise-less playback is possible in the $-0.43\times$ to $+1\times$ ($-0.5\times$ to $+1\times$) range. **<Notes>** • The speeds in parentheses apply when a DV or DVCAM cassette is used. • At the 1(COARSE) setting, the phase cannot be synchronized from the editing controller.
317	VAR FWD MAX	0000 0001 0002	+4.1 +1.85 +1	This sets the maximum VAR FWD speed. 0: $+4.1\times$ ($+3.1\times$) speed 1: $+1.85\times$ ($+1.85\times$) speed 2: $+1\times$ ($+1\times$) speed **<Notes>** • The speeds in parentheses apply when a DV or DVCAM cassette is used. • At any speed setting other than 0 ($+4.1\times$), the phase cannot be synchronized from the editing controller.
318	VAR REV MAX	0000 0001 0002 0003	−4.1 −1.85 −1 −0.43	This sets the maximum VAR REV speed. 0: $-4.1\times$ ($-3.1\times$) speed 1: $-1.85\times$ ($-1.85\times$) speed 2: $-1\times$ ($-1\times$) speed 3: $-0.43\times$ ($-0.5\times$) speed **<Note>** The speeds in parentheses apply when a DV or DVCAM cassette is used.
319	JOG STEP	0000 0001	FINE COARSE	This selects the JOG speed during remote control operations. 0: The tape is played at the fine step speed. 1: The tape is played at a speed at which noise-less playback is possible in the $-0.43\times$ to $+1\times$ ($-0.5\times$ to $+1\times$) range. **<Notes>** • The speeds in parentheses apply when a DV or DVCAM cassette is used. • At the 1(COARSE) setting, the phase cannot be synchronized from an editing controller which synchronizes the phase using the JOG command.

The underline on the setting item denotes the initial setting.

USER menu

<EDIT> (continued)

Item		Setting		Description
No.	**Superimposed display**	**No.**	**Superimposed display**	
320	JOG FWD MAX	0000 0001 <u>0002</u>	+4.1 +1.85 <u>+1</u>	This sets the maximum JOG FWD speed. 0: +4.1× (+3.1×) speed 1: +1.85× (+1.85×) speed 2: +1× (+1×) speed **<Notes>** • The speeds in parentheses apply when a DV or DVCAM cassette is used. • At any speed setting other than 0 (+4.1×), the phase cannot be synchronized from an editing controller which synchronizes the phase using the JOG command.
321	JOG REV MAX	0000 0001 0002 <u>0003</u>	–4.1 –1.85 –1 <u>–0.43</u>	This sets the maximum JOG REV speed. 0: –4.1× (–3.1×) speed 1: –1.85× (–1.85×) speed 2: –1× (–1×) speed 3: –0.43× (–0.5×) speed **<Note>** The speeds in parentheses apply when a DV or DVCAM cassette is used.

The underline on the setting item denotes the initial setting.

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Setup menus

USER menu

<TAPE PROTECT>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
400	STILL TIMER	0000 0001 0002 0003 0004 0005 0006 0007 0008	0.5s 5s 10s 20s 30s 40s 50s 1min 2min	This selects the length of time until tape protection mode is established when a DVCPRO tape is inserted and the unit is in STOP or STILL mode. (Unit: s = second, min = minute)
401	SRC PROTECT	0000 0001	STEP HALF	This selects the operation during the tape protection mode when the unit is left standing in the still status. 0: STEP FWD. 1: HALF LOADING. **<Note>** When STEP FWD is selected, operation will be automatically transferred to the standby OFF (half loading) mode as soon as the unit has been left standing in the STILL mode for a total of 30 minutes (or 1 minute for DV/DVCAM cassette).
402	DRUM STDBY	0000 0001	OFF ON	This selects the drum operation in the STANDBY OFF mode. 0: The drum stops rotating. 1: The drum continues rotating.
403	STOP PROTECT	0000 0001	STEP HALF	This selects the operation in the tape protection mode when the unit has been left standing in the STOP mode. 0: STEP FWD 1: HALF LOADING **<Note>** When STEP FWD is selected, operation will be automatically transferred to the standby OFF (half loading) mode as soon as the unit has been left standing in the STOP mode for a total of 30 minutes (or 1 minute for DV/DVCAM cassette).
404	DV STILL TMR	0000 0001 0002 0003	0.5s 5s 10s 20s	This selects the length of time until tape protection mode is established when a DV/DVCAM tape is inserted and the unit is in STOP or STILL mode. (Unit: s = second) **<Note>** When using the unit in tempuratures below 59°F (15°C), set this item to 10 seconds to protect the tape and video heads.

The underline on the setting item denotes the initial setting.

<Note>
In order to protect the tape and VTR helical heads, it is recommended that the Still Timer be set for automatic tape protection mode in 20 seconds or under.

USER menu

\<TIME CODE\>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
500	VITC POS-1	0000 ⋮ 0006 ⋮ 0010	10L ⋮ 16L ⋮ 20L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-2 in 501 cannot be selected.)
501	VITC POS-2	0000 ⋮ 0008 ⋮ 0010	10L ⋮ 18L ⋮ 20L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-1 in 500 cannot be selected.)
502	VITC BLANK	0000 0001	BLANK THRU	This selects whether to output the VITC data to the positions selected by VITC POS-1 in 500 and VITC POS-2 in 501. 0: Data is not output. 1: Data is output.
503	TCG REGEN	0000 0001 0002	TC&UB TC UB	This selects the signal to be regenerated when the time code generator (TCG) in the REGEN mode. 0: Both the time code and user bit are regenerated. 1: Only the time code is regenerated. 2: Only the user bit is regenerated.
504	REGEN MODE	0000 0001	OFF ON	This selects whether values used in the internal time code generator are preset from the front panel or remote controller or synchronized with time code values read from the tape. 0: Values are preset from the front panel or remote controller. (PRESET) 1: Values are synchronized with time code values read from the tape. (REGEN) **\<Note\>** When "1" is selected, values selected at set up menu No. 503 (TCG REGEN) are regenerated.
505	EXT TC SEL	0000 0001	LTC VITC	This selects the time code to be used when an external time code is to be used. 0: The LTC of the TIME CODE IN connector is used. 1: The video signal VITC is used.
506	BINARY GP	0000 0001 0002 0003 0004 0005 0006 0007	000 001 010 011 100 101 110 111	This sets the usage status of the user bit of the time code generated by the TCG. 0: NOT SPECIFIED (character set not specified) 1: ISO CHARACTER (8 bits character set based on ISO646, ISO2022) 2: UNASSIGNED 1 (undefined) 3: UNASSIGNED 2 (undefined) 4: UNASSIGNED 3 (undefined) 5: PAGE/LINE 6: UNASSIGNED 4 (undefined) 7: UNASSIGNED 5 (undefined)
507	PHASE CORR	0000 0001	OFF ON	This selects whether to control the phase correction of the LTC generated by the TCG. 0: Phase correction control is not performed. 1: Phase correction control is performed.
508	TCG CF FLAG	0000 0001	OFF ON	This selects whether the CF flag of the TCG is to ON. 0: CF flag is OFF. 1: CF flag is ON.

The underline on the setting item denotes the initial setting.

Setup menus

USER menu

<TIME CODE> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
509	DF MODE	0000 0001	DF NDF	This selects the DF/NDF mode for CTL and TCG. 0: Drop frame mode. 1: Non-drop frame mode. **<Note>** No. 509 is valid when the CONTROL is LOCAL or LOCAL ENA of item 004 to "ENA".
510	RUN MODE	0000 0001	REC FREE	This selects the time code generator run mode. 0: Generator runs only during recording. 1: Generator runs during usual operation. **<Note>** Even if "0" is selected, the time code generator runs during usual operation when "1" is selected at the setting menu No. 504 (REGEN MODE).
511	TC OUT REF	0000 0001	V OUT TC_IN	This is used to switch the phase of the time code, which is output from the TIME CODE OUT connector, for the external LTC input when the TC INT/EXT switch is at the EXT position. (In EE mode only) 0: Time code is synchronized with output video signal. 1: Time code is synchronized with external time code input.
512	VITC OUT	0000 0001	SBC VAUX	For selecting the method used to output the VITC which is to be superimposed onto the output video signal. 0: During recording: 　The input time code, which was selected using the setup menu item No. 505 (EXT TC SEL) setting and TC IN/EXT switch, is output as the VITC. 　During playback: 　The time code recorded in the SBC area is output as the VITC. 1: During recording: 　The time code detected from the input video signals is output as the VITC. 　During playback: 　The time code recorded in the VAUX area is output as the VITC. **<Note>** When video signals are recorded, the time code detected from the input video signals is automatically recorded in the VAUX area.

The underline on the setting item denotes the initial setting.

SBC (Sub Code Data) area
This area exists independently from the video and audio data areas on the helical track, and it contains the time code which complies with the SMPTE/EBU standard. As with the conventional LTC (Longitudinal Time Code), the time code can be read even during rewinding and fast forwarding or when the tape has stopped.

VAUX (Video Auxiliary Data) area
This area exists inside the video data area on the helical track, and it contains additional information on the video data.

<Note>
Control over the time code or user bit during tape playback is exercised using the data recorded in the SBC area. In other words, it is exercised over all the data which has been recorded in the SBC area including the data shown on the counter display in the center of the front panel and on the superimposed displays as well as the communication data for a component such as the editing controller.

USER menu

<VIDEO>

Item		Setting		Description
No.	**Superimposed display**	**No.**	**Superimposed display**	
600	P_B/P_R IN LV	<u>0000</u> 0001	MII B-CAM	This selects the component input signal level. 0: MII level. 1: ß cam level.
601	INT SG	<u>0000</u> 0001 0002	OFF BB CB	For selecting whether an internal signal is to be generated. 0: No signal is generated. 1: A black burst signal is generated. 2: A 100% color bar signal is generated. **<Notes>** • The INT SG message appears for 2 seconds when recording commences. • If the VIDEO INPUT switch ❸ is set to DVCPRO/DV, the audio signals will also serve automatically as the internal signals when a video signal has been selected as the internal signal by this menu item setting.
602	INPUT C KILL	0000 <u>0001</u>	B/W AUTO	This selects color killer processing for the video input signals. 0: The signals are forcibly processed as B/W signals. 1: The signals are automatically processed.
603	OUT VSYNC	<u>0000</u> 0001	N-VF VF	This selects whether to float the vertical sync position of the video output in order to align the video output phase with the input in the EE/record/edit modes. 0: Signals are not floated. 1: Signals are floated.
604	V-MUTE SEL	0000 <u>0001</u>	N-MUTE LOW_RF	This selects whether the video output signal is to be muted when the blank portion of the tape is detected during playback. 0: No muting 1: Muting (picture turns grey).
605	CC (F1) BLANK	0000 <u>0001</u>	BLANK THRU	This selects ON or OFF for the closed caption signal in the first field. 0: Forced blanking performed. 1: Blanking not performed.
606	CC (F2) BLANK	0000 <u>0001</u>	BLANK THRU	This selects ON or OFF for the closed caption signal in the second field. 0: Forced blanking performed. 1: Blanking not performed.
608	FREEZE SEL	<u>0000</u> 0001	FIELD FRAME	For selecting how the still picture is to be output. 0: Field output 1: Frame output **<Note>** When frame output is selected, the frame slow mode will be established during slow motion as well.
611	EDH	0000 <u>0001</u>	OFF ON	This selects whether to superimpose EDH onto the serial output signals. 0: EDH is not superimposed. 1: EDH is superimposed. **<Notes>** • This display will not appear unless the AJ-YA455P serial interface board (optional accessory) has been installed. • Even when 1 (ON) has been selected, EDH is not superimposed at the SERIAL OUT 3 connector if the SUPER ON/OFF switch is at the ON position.

The underline on the setting item denotes the initial setting.

Setup menus

USER menu

<VIDEO> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
612	WIDE SELECT	0000 0001 0002	AUTO WIDE NORMAL	This selects the operation to be conducted in response to the WIDE information. 0: During recording, if the S1-VIDEO input signals contain WIDE information, the WIDE information is recorded on the tape. During playback, if WIDE information is on the tape, it is added to the S1-VIDEO output signals. 1: During recording, the WIDE information is recorded on the tape regardless of whether the S1-VIDEO input signals contain the WIDE information. During playback, the WIDE information is added to the S1-VIDEO output signals regardless of whether the WIDE information is on the tape. → Forced WIDE ON 2: During recording, the WIDE information is not recorded on the tape regardless of whether the S1-VIDEO input signals contain the WIDE information. During playback, the WIDE information is not added to the S1-VIDEO output signals regardless of whether the WIDE information is on the tape. → Forced WIDE OFF **<Note>** This item is effective during recording at the start of the recording and during playback at all times. Therefore, when its setting has been changed during recording, the MENU contents will be changed but no change will occur in the actual operation.
613	VIN SETUP	0000 0001	THRU CUT	This selects whether the composite signal is to be recorded with setup or without setup. 0: When recording signals with no setup. 1: When recording signals with 7.5% setup. **<Note>** When recording composite signals, be sure to double-check whether the signals are to be recorded with or without setup.
620	Pb/Pr OUT LV	0000 0001	MII B-CAM	For selecting the analog component output level. 0: MII level 1: Betacam level

The underline on the setting item denotes the initial setting.

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USER menu

<AUDIO>

Item		Setting		
No.	Superimposed display	No.	Superimposed display	Description
700	CH1 IN LV	0000 _0001_ 0002 0003	4dB _0dB_ −20dB −60dB	This selects the audio input (CH1) reference level switching.
701	CH2 IN LV	0000 _0001_ 0002 0003	4dB _0dB_ −20dB −60dB	This selects the audio input (CH2) reference level switching.
703	CH1 OUT LV	0000 _0001_ 0002	4dB _0dB_ −20dB	This selects the audio output (CH1) reference level switching.
704	CH2 OUT LV	0000 _0001_ 0002	4dB _0dB_ −20dB	This selects the audio output (CH2) reference level switching.
714	REC CH1	_0000_ 0001 0002	_CH1_ CH2 CH1+2	This selects the input signal to be recorded on the audio CH1 track. 0: Audio input CH1 signal. 1: Audio input CH2 signal. 2: Mixed audio input CH1 and CH2 signal.
715	REC CH2	0000 _0001_ 0002	CH1 _CH2_ CH1+2	This selects the input signal to be recorded on the audio CH2 track. 0: Audio input CH1 signal. 1: Audio input CH2 signal. 2: Mixed audio input CH1 and CH2 signal.
716	REC CUE	_0000_ 0001 0002	_CH1_ CH2 CH1+2	This selects the input signal recorded in CUE. 0: The signal selected by SETUP-MENU No. 714 is recorded. 1: The signal selected by SETUP-MENU No. 715 is recorded. 2: The signal selected by SETUP-MENU No. 714 and No. 715 are mixed and recorded.
718	DV OUTPUT	_0000_ 0001 0002	_ST1_ ST2 ST1+2	This selects the AUDIO CH1 and CH2 output signals during DV or DVCAM format playback. 0: The CH1 track signals are output to CH1 and the CH2 track signals to CH2. (Only the sound during shooting is output.) 1: The CH3 track signals are output to CH1 and the CH4 track signals to CH2. (Only the audio dubbing sound is output.) 2: The mixed CH1 and CH3 track signals are output to CH1 and the mixed CH2 and CH4 track signals to CH2. (The sound during shooting and audio dubbing sound are output simultaneously.) **<Note>** This menu item takes effect only when a DV or DVCAM cassette tape with a 32 kHz/4-channel recording is played back.
719	PB FADE	_0000_ 0001 0002	_AUTO_ CUT FADE	This selects the processing method for the audio edit points (IN point, OUT point) during playback. 0: According to the status during recording. (Setup menus No. 309, 310) 1: Forced CUT 2: Forced FADE

The underline on the setting item denotes the initial setting.

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Setup menus

USER menu

<AUDIO> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
720	EMBEDDED AUD	0000 0001	OFF ON	This selects whether to superimpose the audio data onto the serial output. 0: Data is not superimposed. 1: Data is superimposed. **<Note>** This display will not appear unless the AJ-YA455P serial interface board (optional accessory) has been installed.
721	LINE CH SEL	0000 0001	PCM AUTO	This selects the audio output for CH1 and CH2. 0: PCM AUDIO is output. 1: PCM AUDIO is output in the −0.43× to 1× speed range; in all other cases, CUE is automatically output. **<Note>** The PCM AUDIO output CH1 and CH2 signals are output separately regardless of the position selected for the AUDIO MONITOR SELECT switch.
722	INT SG	0000 0001	OFF ON	This selects whether the internal signal is to be used for the audio input signal. 0: The internal signal is not selected. 1: The internal signal is selected. **<Notes>** • The internal signal has a frequency of 997 Hz. • This setting is invalid if the VIDEO INPUT switch ㉝ has been set to DVCPRO/DV.
723	DV PB ATT	0000 0001	OFF ON	This selects the audio output level for DV format playback. 0: The audio output level is not attenuated. 1: The audio output level is attenuated (reduced).
729	REC PT MUTE	0000 0001	OFF ON	For selecting whether to mute the sound at the joins between recordings during DV or DVCAM cassette playback. 0: The sound is not muted. 1: The sound is muted.
731	REF LEVEL	0000 0001 0002	FS-20 FS-18 FS-12	For setting the audio reference level. 0: Full scale, −20 dB 1: Full scale, −18 dB 2: Full scale, −12 dB

The underline on the setting item denotes the initial setting.

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USER menu

<MENU>

Item		Setting		Description
No.	**Superimposed display**	**No.**	**Superimposed display**	
A00	LOAD	0000 0001 0002 0003	USER2 USER3 USER4 USER5	This selects the user file whose contents will be loaded into USER1. 0: The USER2 file contents are loaded. 1: The USER3 file contents are loaded. 2: The USER4 file contents are loaded. 3: The USER5 file contents are loaded. **<Note>** When the SET button is pressed after loading, the setting will be stored in the memory. When the MENU button is pressed, the setting will not be changed.
A01	SAVE	0000 0001 0002 0003 0004	USER2 USER3 USER4 USER5 LOCKED	This selects the user file into which the USER1 settings will be saved. 0: The settings are saved in USER2. 1: The settings are saved in USER3. 2: The settings are saved in USER4. 3: The settings are saved in USER5. 4: This display appears when all the user files are in the change prohibit status. **<Notes>** • User files whose status have been set to change prohibit cannot be selected. • When all the user files are in the change prohibit status, the "LOCKED" display appears and the contents cannot be saved.
A02	P.ON LOAD	0000 0001 0002 0003 0004	OFF USER2 USER3 USER4 USER5	This loads the contents of the selected user file into USER1 and it starts operation with the USER1 settings when the power is turned on. 0: Operation is started with the settings of the previously set user file. 1: The contents of USER2 are loaded into USER1 and operation is started with the USER1 settings. 2: The contents of USER3 are loaded into USER1 and operation is started with the USER1 settings. 3: The contents of USER4 are loaded into USER1 and operation is started with the USER1 settings. 4: The contents of USER5 are loaded into USER1 and operation is started with the USER1 settings.
A03	MENU LOCK	0000 0001	OFF ON	This selects whether to set or release the user file (USER2 – USER5) lock mode. 0: The lock is released (changes can be made). 1: The lock is set (changes are prohibited). **<Note>** The lock cannot be set for USER1.

The underline on the setting item denotes the initial setting.

<Notes>
- No. A00 (LOAD), No. A01 (SAVE) and No. A02 (P.ON LOAD) are the menu items which can be set only for USER1. They are not displayed with the USER2 – USER5 files.
- No. A03 (MENU LOCK) is the menu item which can be set only for the USER2 – USER5 files. It is not displayed with USER1.

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